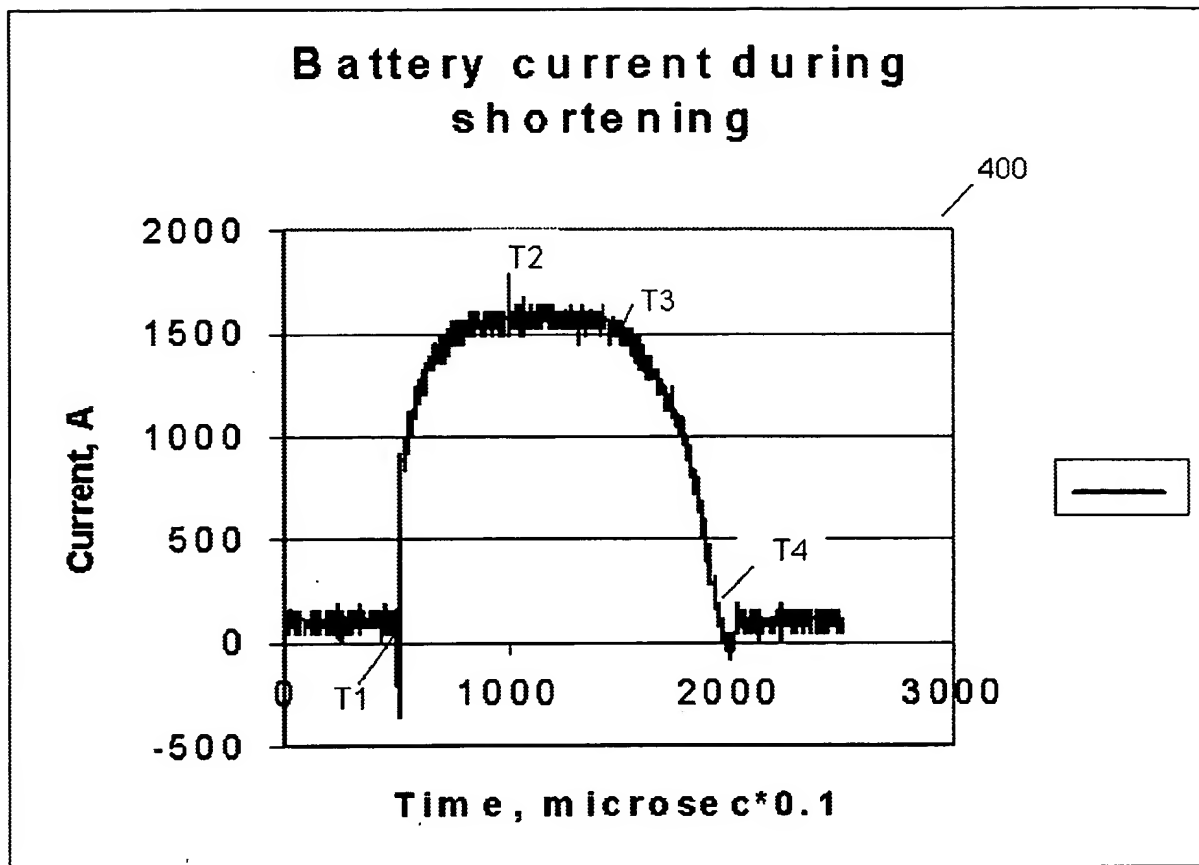
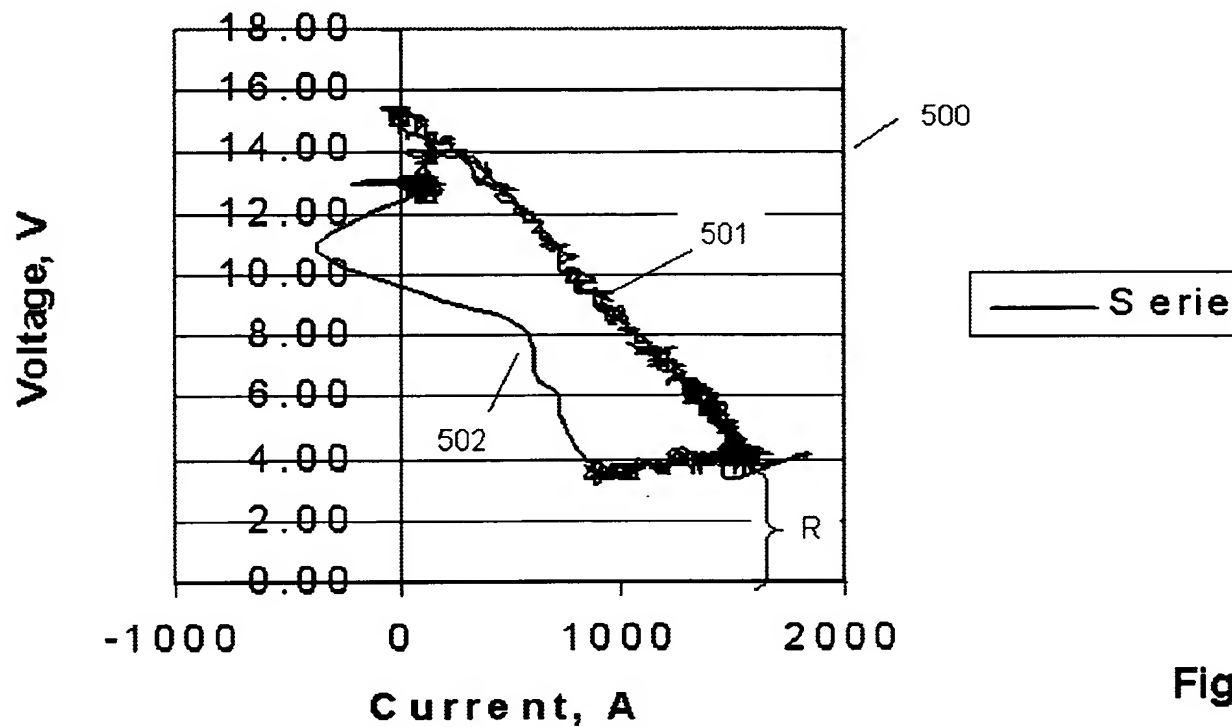
**Fig. 3**

**Fig. 4**

Battery voltage as a function of battery current (stright loading and remain loading)



Fig

Family of $U=f(I)$ characteristics during load remaining for different BFF

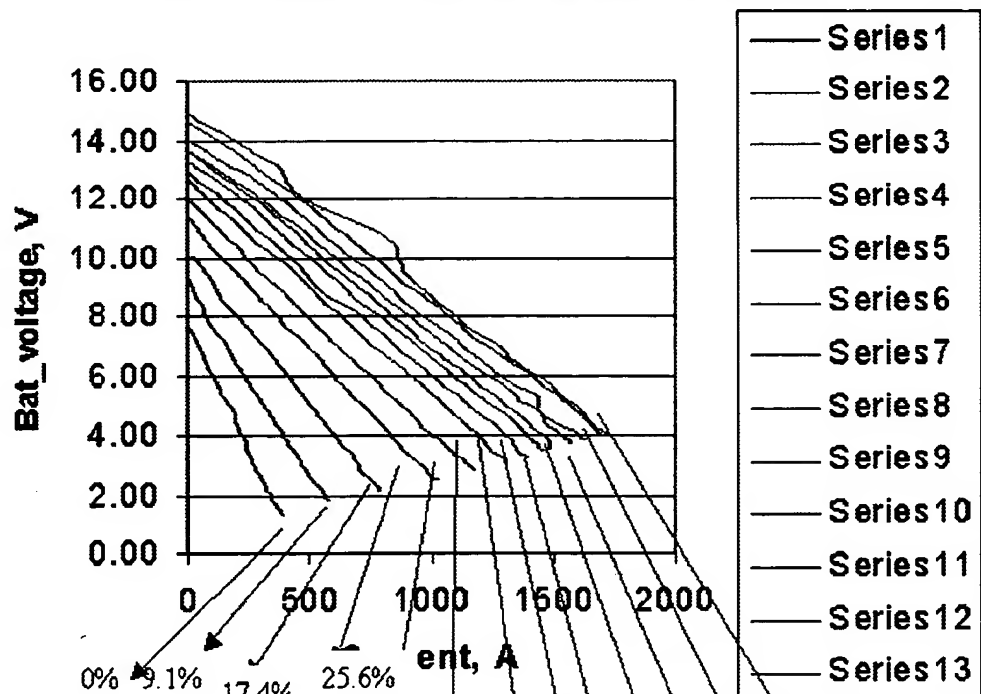


Fig. 6

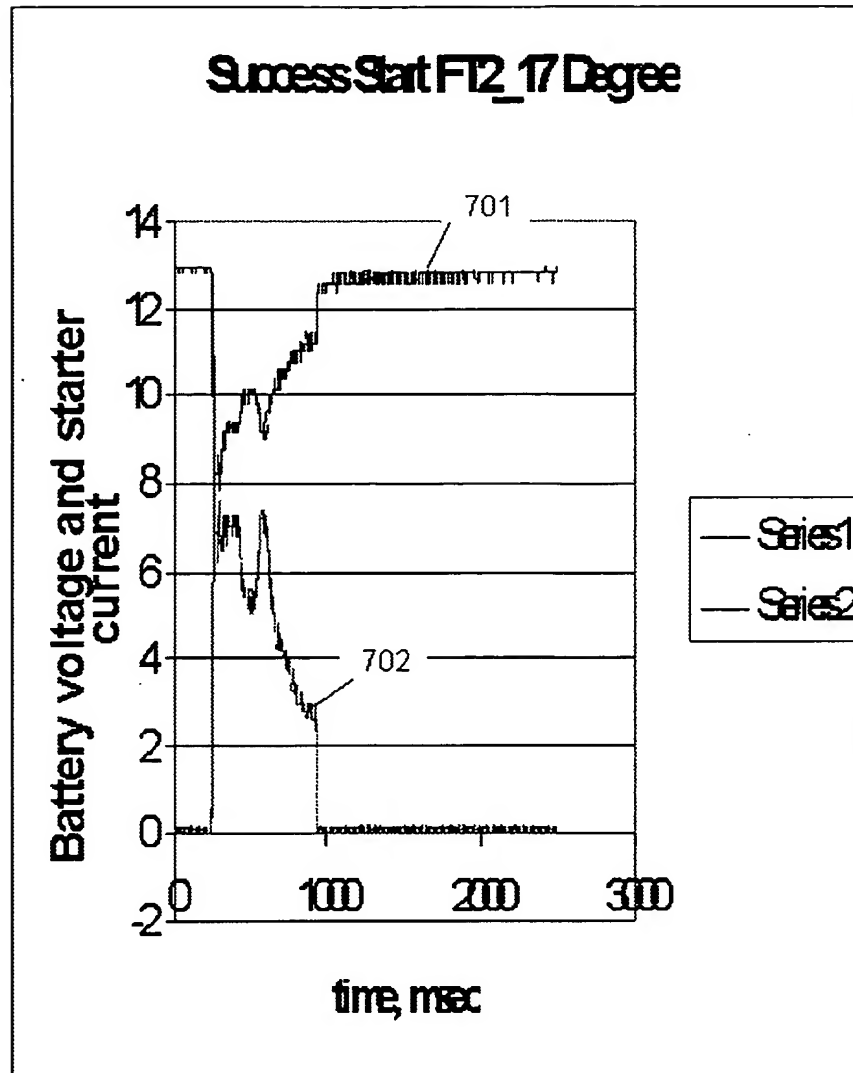
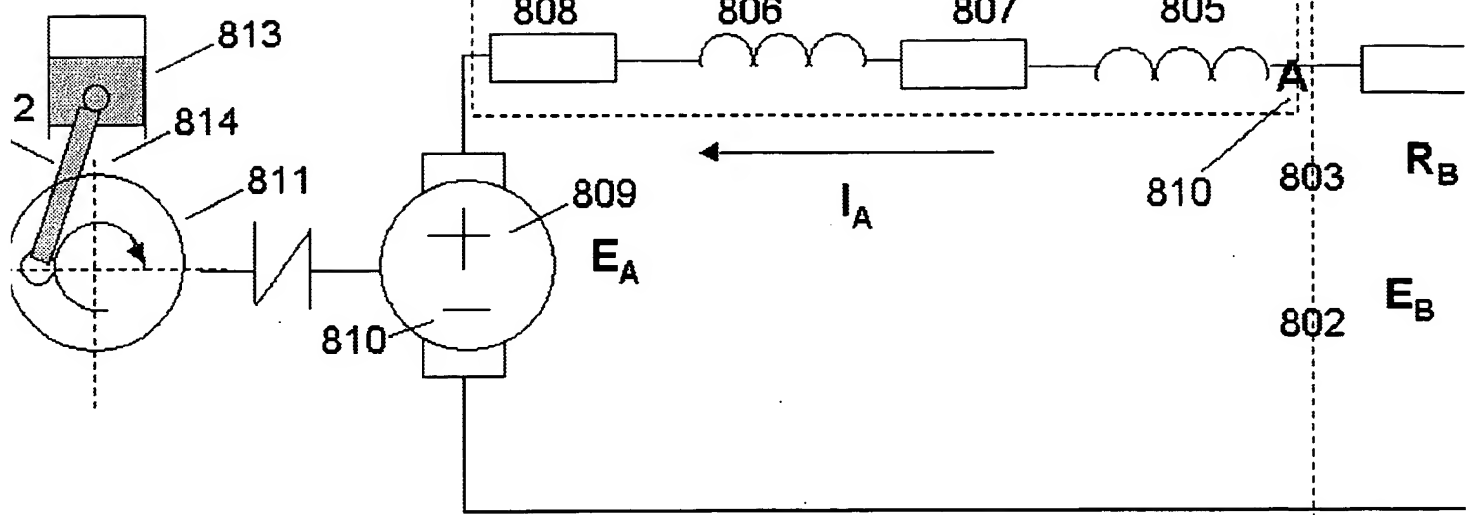


Fig. 7



$$(1) \quad E_B - I_A \cdot (R_A + R_S + R_B) - (L_A + L_S) \cdot \frac{dI_A}{dt} - E_A = 0$$

$$(2) \quad E_A = f(I_A) \cdot \frac{\omega_M}{\omega_{nom}}$$

$$(3) \quad \tau_M = I_A \cdot \frac{f(I_A)}{\omega_{nom}} - \tau_{friction}$$

$$(4) \quad J_T \cdot \frac{d\omega_M}{dt} = \tau_M - \tau_R$$

$$(5) \quad \tau_R = f(\alpha_M, V_E, n_C, \theta)$$

Fig.8

Fig. 9A

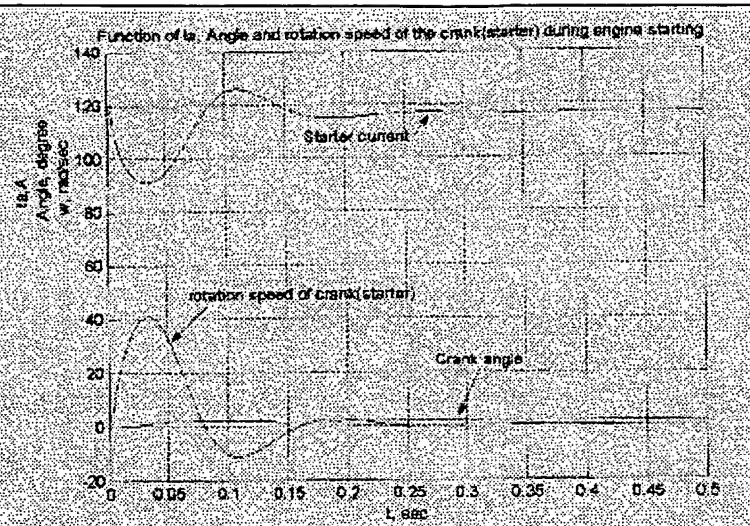
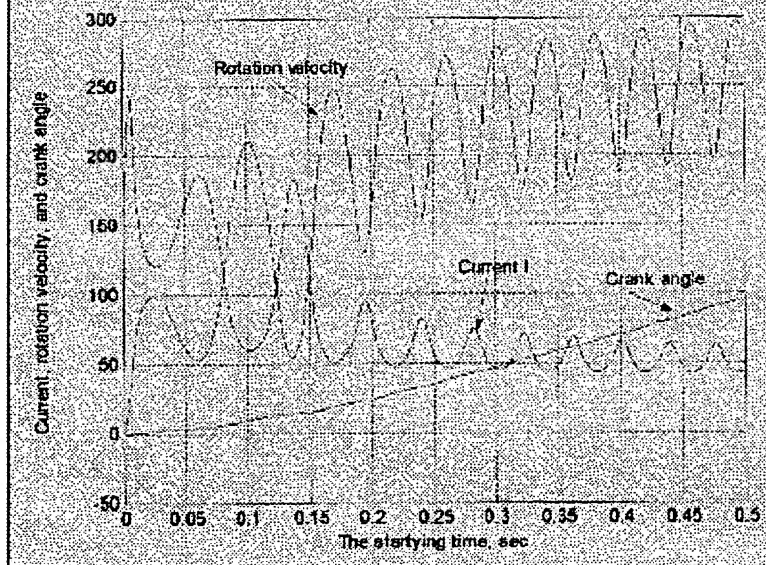
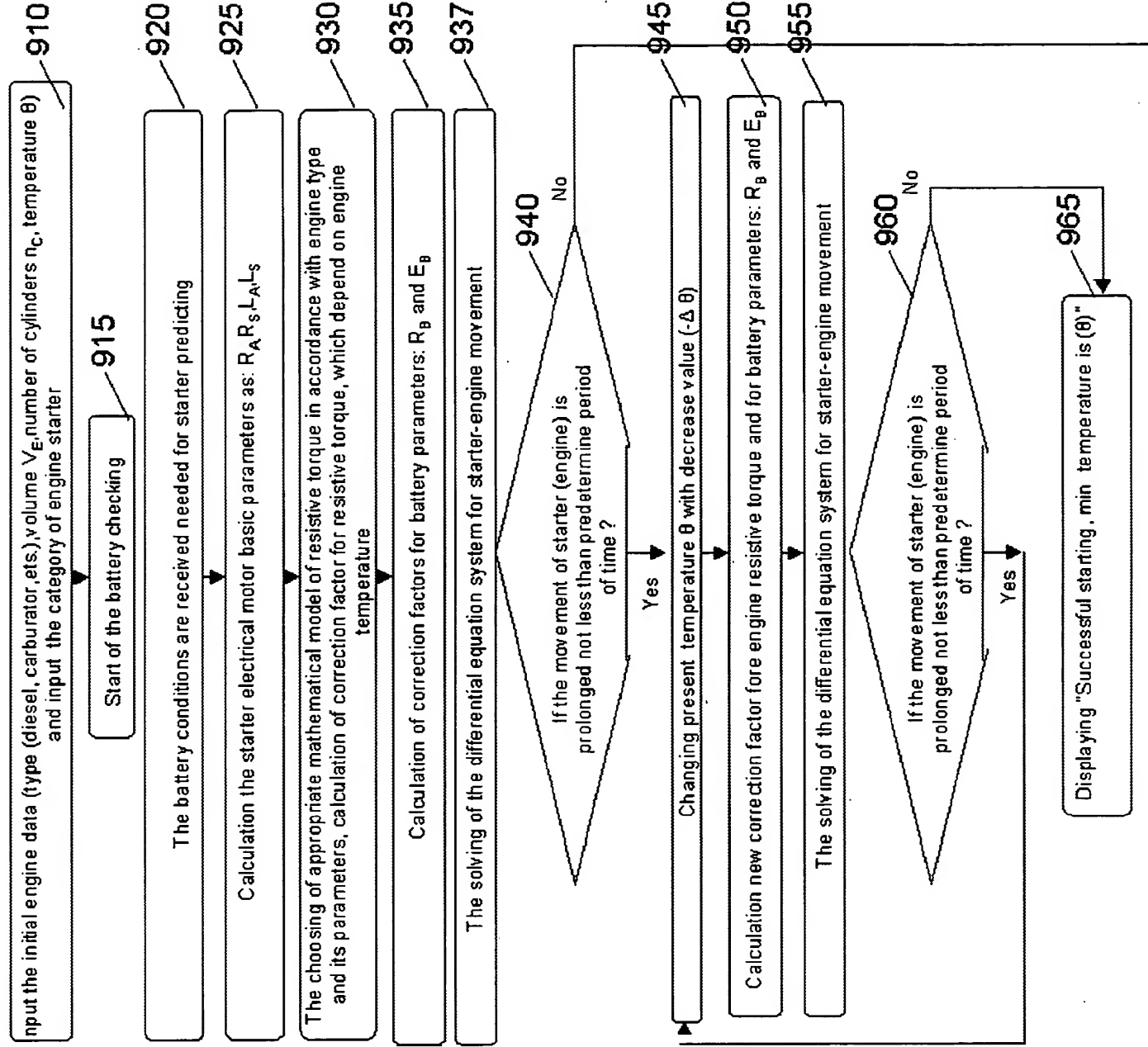


Fig. 9B





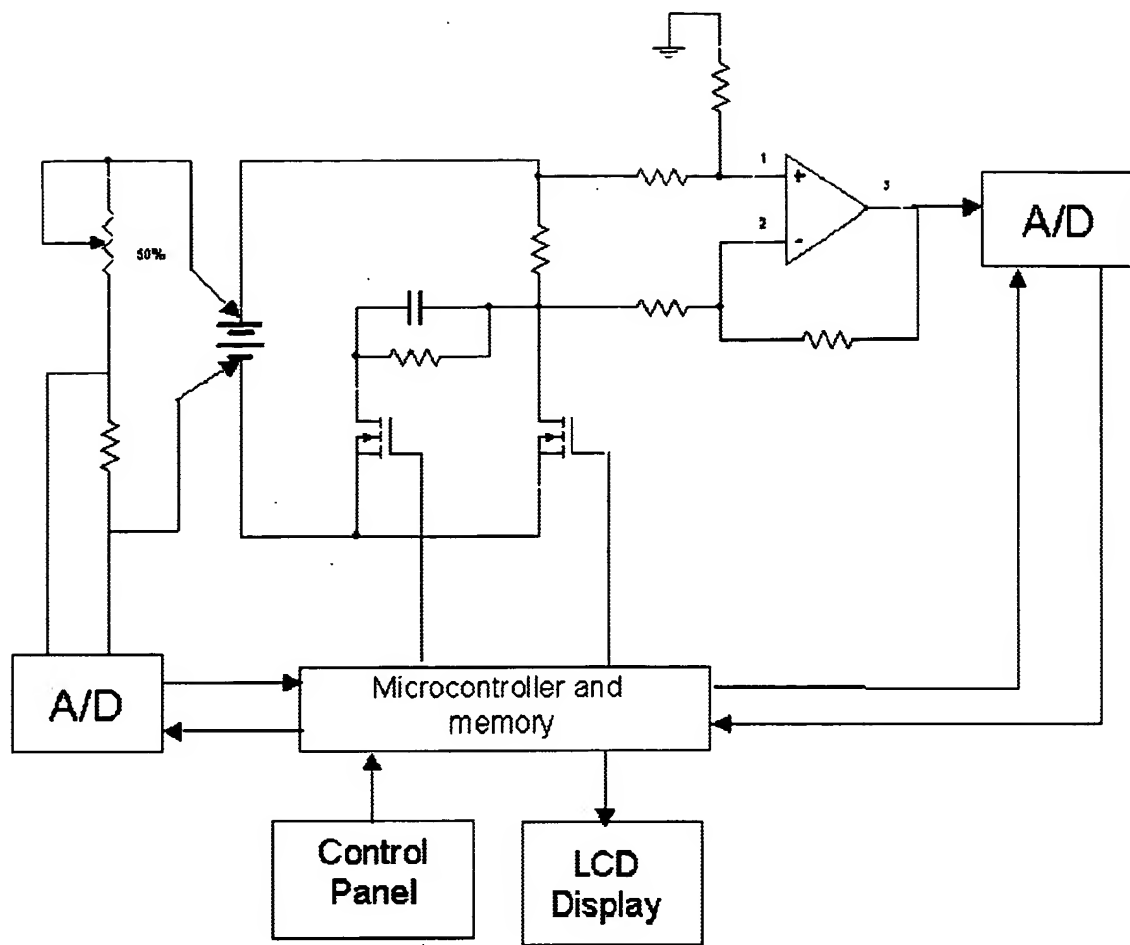


Fig. 11

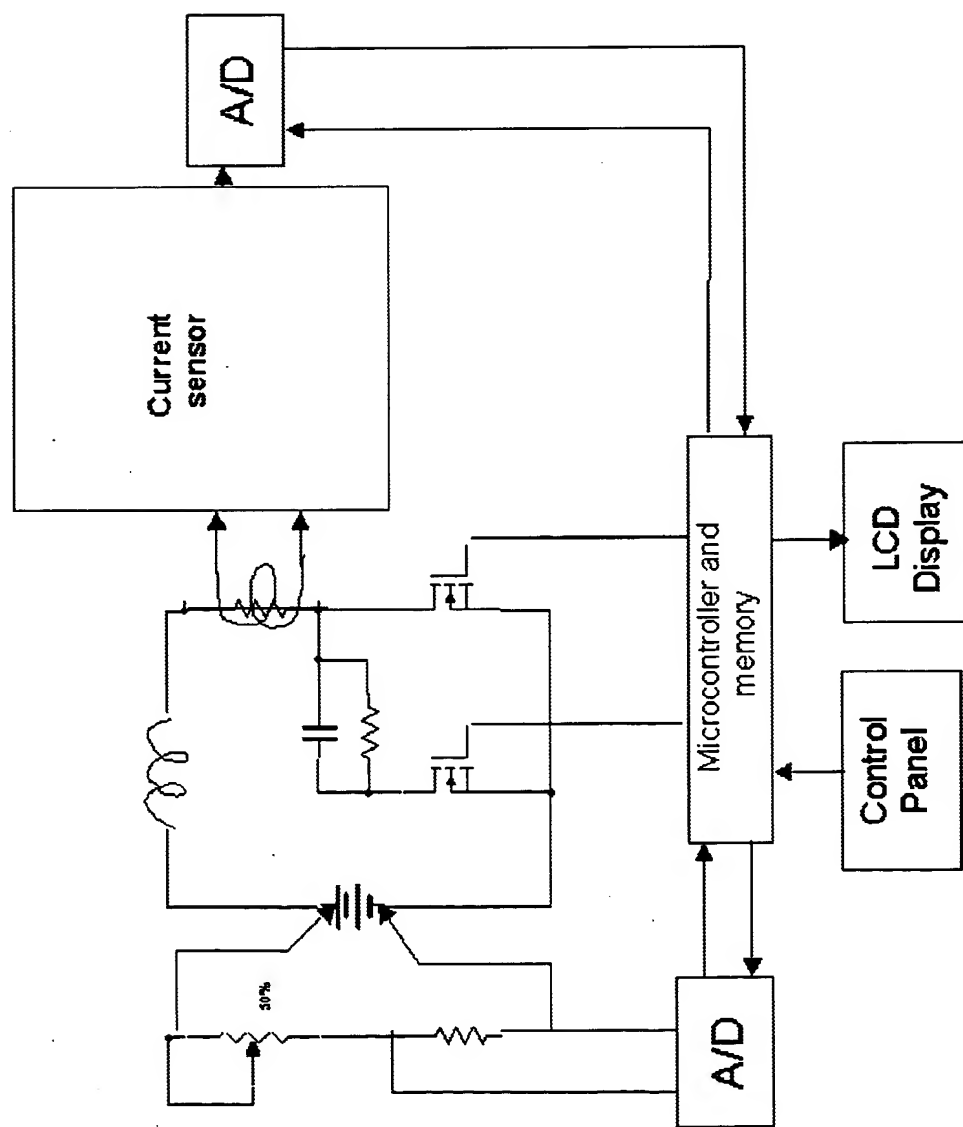


Fig.12

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